

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/722,447	11/28/2003	Sylvain P. Tremblay	005811-0009	8258
20559	7590 12/06/2005		EXAMINER	
ROBIC CENTRE CDP CAPITAL			KASTLER, SCOTT R	
1001, VICTORIA SQUARE - BLOC E - 8TH FLOOR MONTREAL, QC H2Z 2B7		ART UNIT	PAPER NUMBER	
		1742		
CANADA			DATE MAIL ED. 12/06/2008	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/722,447	TREMBLAY, SYLVAIN P.	
Office Action Summary	Examiner	Art Unit	
	Scott Kastler	1742	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MON te, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. EANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 31 (October 2005.		
2a) This action is FINAL . 2b) ☑ Thi	is action is non-final.		
3) Since this application is in condition for allowed	ance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) 1,3 and 5-13 is/are pending in the a	pplication.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1,3 and 5-13</u> is/are rejected.			
7) Claim(s) is/are objected to.		·	
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	ier.	•	
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to	oy the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyar	ice. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority documer	nts have been received.		
2. Certified copies of the priority documer		pplication No	
3. Copies of the certified copies of the price	ority documents have been	received in this National Stage	
application from the International Burea	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a lis	t of the certified copies not	received.	
Attachment(s)	🗖	(070.4/2)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		nformal Patent Application (PTO-152)	

Application/Control Number: 10/722,447

Art Unit: 1742

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10-31-2005 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3 and 5-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doza et al in view of Benson and Japanese'773. Doza et al teaches a dry, free flowing refractory material for use as a back-up insulating material (see col. 2 lines 32-44 and col. 3 lines 65-68 for example), including up to 100% by weight of a mixture of a matrix material and a lightweight filler material, both of which may be made up of fly ash in the form of cenospheres (ceramic hollow spheres, see col. 4 lines 3-36 and col. 5 lines 40-48 for example) and up to 15% by weight of a heat activated bonding agent (binder) which may be boric acid (see col. 4 lines 53-56 for example), thereby showing all aspects of the above claims except the specifically recited composition ranges, which fall within the broad composition ranges stated to be equally useful

Application/Control Number: 10/722,447 Page 3

Art Unit: 1742

disclosed by Doza et al, or the inclusion of a non-wetting agent in the composition, since the heat expandable materials and dust suppressants recited in the instant claims are recited as optional components only (they are met by a 0% amount). Benson teaches, in the embodiments of Experiments 1 and 4 for example, that conventional non-wetting agents (see col. 5 lines 45-50 for example) in amounts of about 2% by weight, were known additives in dry, free flowing compositions for use in metallurgical applications for improved resistance to molten metal. Japanese'773 teaches that calcium fluoride was a known non-wetting agent suitable for addition to refractory compositions at the time the invention was made. Because the refractory material of Doza et al, which is intended for molten metal applications, would also desire the improved resistance to molten metal afforded by the conventional non-wetting agent addition taught by Benson, motivation to employ a conventional non-wetting agent known to be useful in refractory compositions in the form of calcium fluoride, as taught by Japanese'773, in the refractory composition of Doza et al, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made, where the resulting composition would be reasonably expected to inherently possess the thermal conductivity and setting temperature recited in instant claim 1. With respect to the compositional; differences between Doza et al and the instant claims, it has been well settled that where, as in the instant case, the applied prior art teaches a composition range which encompasses a claimed range, then absent any demonstrated new or unexpected results arising therefrom, motivation to select values from the claimed range within the prior art disclosed broader range, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made. See MPEP 2144.05. In the instant case, because Doza et al teaches a composition which encompasses the instantly claimed composition

Application/Control Number: 10/722,447 Page 4

Art Unit: 1742

range, motivation to employ any of the equally useful ranges taught by Doza et al as the dry, free-flowing refractory composition of Doza et al, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

Response to Arguments

Applicant's arguments filed on 10-31-2005 have been fully considered but they are not persuasive. Applicant's argument that the expanded alumina silica hollow microspheres of Doza are not the same as the cenospheres of the instant claims is not persuasive because the originally filed specification, on page 3, lines 11-15 recites cenospheres as ceramic hollow microspheres of silica and alumina. Applicant's further arguments that the instantly claimed compositions requiring the use of fly ash containing cenospheres specifically rather than the broader disclosure of Doza (where the use of cenospheres is recited as one of many different possible components) results in improved properties in the material is not persuasive because firstly, the product brochures cited by the applicant in page 8 of the arguments were not received and therefore cannot be evaluated with respect to overcoming the above rejections, and secondly, any evidence or showing of new or unexpected results (as is argued by the applicant with respect to the instant composition with respect to the composition of Doza) must be presented in proper, affidavit or declarative form to be persuasive (see *In re Wood et al.*, 199 USPO 137). It is noted however, that submission of such evidence or showings in proper form would overcome the above rejections.

Art Unit: 1742

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott Kastler Primary Examiner Art Unit 1742

sk